

Kristy Hamlin

SOFTWARE DEVELOPER

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PROFESSIONAL SUMMARY

Top-achieving **Software Developer** with experience in Python, Java, Web Development, Database Design, and Agile Software Development. Bringing 9 years of professional experience in scientific research and positioned to thrive in development environments where strong collaboration, writing, and problem-solving skills are key. Known for being a team-player, self-motivated, and detail-oriented.

Skills/Software:

- Java, Python, C, HTML, CSS
- Object-Oriented Design
- Data Structures and Algorithms
- Microsoft Power Apps, Power Automate
- Machine Learning and AI
- Git, Github, Version Control
- Software Testing, Testing Theory
- Relational Databases, SQL, Query Design
- Agile Development, SCRUM, SDLC
- UX, Human-Computer Interaction

SELECTED CODING PROJECTS

Microsoft Power Apps: Enhancing FIU's STARS Tutoring Administration

Served as Team Leader | Mentor & Product Owner: Dr. Patricia Wells

Developed a system in Microsoft Power Apps to provide process automation for FIU's "STARS" Tutoring service, currently administered manually by Dr. Patricia Wells.

- Refined system requirements from Product Owner into actionable use cases and user stories.
- Implemented assigned features using Power Apps. Tested features to ensure functionality.
- Wrote comprehensive documentation for stakeholders and developers, effectively communicating the system design and illustrating relationships between application components.
- Simplified the Excel-based data management of the system, reducing redundant workflows to about 1/4, greatly enhancing maintainability and scalability.

Portfolio Site

Individual Project | <https://kristy-hamlin.github.io/kristy-hamlin-portfolio-site/>

Designed and developed an attractive portfolio site to showcase materials from my software engineering projects and science career.

Predicting Miami Housing Prices using Machine Learning

Individual Project | Introduction to Machine Learning

Utilized Python's Pandas and Sklearn libraries to implement a model to predict Miami Housing Prices, using a Kaggle dataset with 14,000 objects.

- Achieved a MAE of \$52,000 and R-squared of 0.78 using a Decision Tree Regressor.

PROFESSIONAL EXPERIENCE

BioTissue | Miami, FL

08/2018 – Ongoing

<https://biotissue.com/>

Lab Supervisor (07/2022 – Present)

- Promoted to R&D Lab Supervisor in 2022 after excelling at the Research Associate position – demonstrating loyalty, growth, and initiative.

- Led team of scientists to ensure on-time production of qualified samples to partner studies at Johns Hopkins University consistently for over 2 years.
- Communicate scientific findings to a non-technical audience via blog style posts on the company intranet, called the "BioSphere".
- Spearheaded research project to optimize the Western Blot Assay, successfully resolving multiple key problems encountered by scientists. Generated technical documentation on the experiments performed, data, and results.
- Led departmental "Great Place to Work" initiative, resulting in R&D survey ratings of the GPTW statement rising from 67% to 83% in 2023, fostering a positive work environment.

Research Associate (08/2018 – 07/2022)

- Followed Standard Operating Procedures (SOPs) to perform lab research experiments
- Generated data, analyzed data, and wrote technical reports for company research projects
- Effective and experienced in a hybrid and remote work environment. Able to work unsupervised.

EDUCATION

Florida International University | Miami, FL

BS in Computer Science, Software Development Track

University of Miami | Miami, FL

BS in BioChemistry, BA in English Literature